



(1 of 2)

PTO/SB/08A (10-01)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **1** of **3**

Complete if Known

Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. Rosenberg
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR-050/04US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6,422,941	7/23/2002	Thomer et al.	
		6,160,489	12/12/2000	Perry et al.	
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
		JP	H2-185278		7/19/1990	Taito Corporation	
		JP	H4-8381		1/13/1992	Epoch Co. and Key- Planning Co.	
		JP	H7-24147		1/27/1995	Sega Corporation	
		JP	H5-192449		8/3/1993	Taito Corporation	

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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		"Component Maintenance Manual With Illustrated Parts List, Coaxial Control Shaker Part no. C-25502," Safe Flight Instrument Corporation, Revised 28 January 2002 (3 pages).
		"Technical Manual Overhaul Instructions With Parts Breakdown, Coaxial Control Shaker Part no. C-25502," Safe Flight Instrument Corporation, Revised 15 July 1980 (23 pages).
		SCANNELL, "Taking a Joystick Ride," <i>Computer Currents</i> , Boston Edition, Vol. 9, No. 11, November 1994
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9/24/2007

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of

8**Complete if Known**Application Number **10/780,852**Filing Date **February 19, 2004**First Named Inventor **Louis B. ROSENBERG**Art Unit **2173**Examiner Name **Unassigned**Attorney Docket Number **IMMR050/04US**

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
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		WO	96/39944		12-1996		
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		WO	9502233		01-1995		
		WO	9502801		01-1995		
		WO	9520787		08-1995		
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		WO	9712357		04-1997		

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Sheet **6** of **8****Complete if Known**

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Filing Date	February 19, 2004
First Named Inventor	Louis B. ROSENBERG
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		Rosenberg, Louis B. et al., "Perceptual Decomposition of Virtual Haptic Surfaces," IEEE, Oct. 1993.
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PTO/SB/08A (08-00)

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		Gotow et al., "Controlled Impedance Test Apparatus for Studying Human Interpretation of Kinesthetic Feedback," WA11-11:00, pp. 332-337	
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				Application Number	
				Filing Date	
				First Named Inventor	
				Group Art Unit	
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Sheet	7	of	8		

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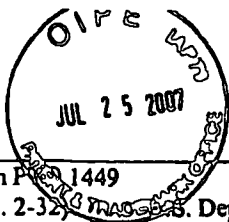
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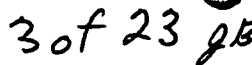
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Page 1 of 1

Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. IMMR-0013D (034701-007)		Serial No. 10/780,852	
Information Disclosure Statement by Applicant				Applicant: Louis B. Rosenberg et al.			
(Use several sheets if necessary)				Filed: 02/19/2004		Group: 2628	
U.S. Patent Documents							
Init.		Document No.	Date	Name	Class	Subclass	Filing Date
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Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)							
/JB/		Millman, Paul A. et al., "Design of a Four Degree-of-Freedom Force-Reflecting Manipulandum with a Specified Force/Torque Workspace," Depart. Of Mechanical Engineering, 1991, pp. 1488-1493.					
/JB/		Ouhyoung, Ming et al., "A Low-Cost Force Feedback Joystick and Its Use in PC Video Games," IEEE Transactions on Consumer Electronics, Vol. 41, No. 3, August 1995, pp. 787-194.					
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Atty. Docket No.
IMMR-0013D

Serial No.
10/780,852

Information Disclosure Statement by Applicant

Applicant:
Louis B. Rosenberg et al.

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Filed:
February 19, 2004

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2173

U.S. Patent Documents

Foreign Documents

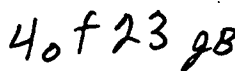
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

Complete if Known

Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. Rosenberg
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR-050/04US

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
		JP	H2-185278		7/19/1990	Taito Corporation	
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Sheet 2 of 3

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Filing Date	February 19, 2004
First Named Inventor	Louis B. Rosenberg
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR-050/04US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
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		Component Maintenance Manual With Illustrated Parts List, Coaxial Control Shaker Part no. C-25502, Safe Flight Instrument Corporation, Revised 28 January 2002 (3 pages).
		Technical Manual Overhaul Instructions With Parts Breakdown, Coaxial Control Shaker Part no. C-25502, Safe Flight Instrument Corporation, Revised 15 July 1980 (25 pages).
		SCANNELL, "Taking a Joystick Ride," Computer Currents, Boston Edition, Vol. 9, No. 11, November 1984
/JB/		YAMAKITA et al., "Tele-Virtual Reality of Dynamic Mechanical Model," <i>Proceedings of the 1992 IEEE/RSJ International Conference on Intelligent Robots and Systems</i> , Raleigh, NC, July 7-10, 1992
		NOLL, "Man-Machine Tactile," <i>SID Journal</i>, July/August 1972 Issue.
		ROSENBERG, "Virtual Pictures: Perceptual Overlays Enhance Operator Performance In Telepresence Tasks," Ph.D. Dissertation, Stanford University, June 1994.

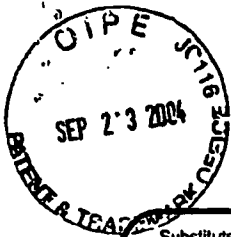
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First Named Inventor	Louis B. ROSENBERG
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U.S. PATENT DOCUMENTS					
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Examiner Signature	/Jeffery Brier/		Date Considered	09/24/2007	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 8

Complete If Known

Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Sheet 3 of 8

Complete if Known

Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

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/JB/		4,677,355	06-1987	Baumann	

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/Jeffery Brier/

Date
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09/24/2007

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Sheet 4 of 8

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Application Number	10780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/JB/		4,676,002	06-1987	Slocum	
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/Jeffery Brier/

Date
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STATEMENT BY APPLICANT**

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Sheet **5** of **8****Complete if Known**

Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ²	Number ³	Kind Code ⁴ (if known)			
		EP	0085518	A1	08-1983		
		WO	96/16397		05-1996		
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		WO	9712357		04-1997		

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 6

of

8

Complete if Known

Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume and issue number(s), publisher, city and/or country where published.
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		Akamatsu, et al., "Multimodal Mouse: A Mouse-Type Device with Tactile and Force Display," Presence, vol. 3, No. 1, Winter 1994, pp. 73-80.
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Examiner Signature	/Jeffery Brier/	
Date Considered	09/24/2007	

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INFORMATION DISCLOSURE
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Sheet 7 of 8

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Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
/JB/		Rosenberg, Louis B. et al., "Perceptual Decomposition of Virtual Haptic Surfaces," IEEE, Oct. 1993.
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/Jeffery Brier/

Date
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Sheet 8

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Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		"Useful Technology for Your Idea File," Design News, Mar. 7, 1994, pp. 63.
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/Jeffery Brier/

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		Application Number			
		Filing Date	February 19, 2004		
		First Named Inventor	Louis B. ROSENBERG		
		Group Art Unit			
Examiner Name					
Sheet	1	of	8	Attorney Docket Number	DMMR-050/04US

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Examiner Initials ^o	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
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				Examiner Name	
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		Office ¹	Number ²	Kind Code ³ (if known)		
		EP	0 349 086	A1	Stork Kwant B.V.	01/03/1990
		JP	H4-8381		Taito Corporation	01/13/1992
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
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**INFORMATION DISCLOSURE
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Sheet	6	of	8	Application Number	
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Application Number			
Filing Date		February 19, 2004	
First Named Inventor		Louis B. ROSENBERG	
Group Art Unit			
Examiner Name			
Attorney Docket Number		IMMR-050/04US	
Sheet	7	of	8

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Examiner Signature		Date Considered	
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Examiner Signature	/Jeffery Brier/	Date Considered	09/25/2007
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